

Title (en)

Efficient multiplexing of ePDCCH signals

Title (de)

Effizientes Multiplexen für ePDCCH-Signale

Title (fr)

Multiplexage efficace des signaux de type ePDCCH

Publication

EP 2810517 A1 20141210 (EN)

Application

EP 13743974 A 20130128

Priority

- US 201261592247 P 20120130
- US 2013023360 W 20130128

Abstract (en)

[origin: WO2013116127A1] Enhanced physical downlink control channel are multiplexed with physical downlink data channel in frequency division multiplexing (FDM), or in frequency division multiplexing (FDM) + time division multiplexing (TDM). FDM mode applies to users that have only UL grants in that subframe. UL grants of different users are cross-interleaved and transmitted over the entire physical resource blocks (both slots) in FDM. Frequency resources for cross-interleaved UL grants are distributed. TDM + FDM applies to users that have both DL and UL grants, or have only DL grant in that subframe. DL/UL grant (maybe mixed) is transmitted only in the first slot of physical resource blocks in TDM + FDM, where the second slots in those resource blocks can be used for those users' downlink data transmission.

IPC 8 full level

H04L 5/00 (2006.01); **H04W 72/04** (2009.01); **H04W 72/12** (2009.01)

CPC (source: EP KR US)

H04B 7/2612 (2013.01 - KR); **H04B 7/2615** (2013.01 - KR); **H04L 5/0053** (2013.01 - EP US); **H04W 72/121** (2013.01 - EP US);
H04W 72/23 (2023.01 - US); **H04W 72/535** (2023.01 - KR)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2013116127 A1 20130808; CA 2862674 A1 20130808; CA 2862674 C 20170530; CN 104094662 A 20141008; CN 104094662 B 20181026;
EP 2810517 A1 20141210; EP 2810517 A4 20150916; EP 2810517 B1 20180822; EP 3402115 A1 20181114; ES 2692161 T3 20181130;
HK 1201667 A1 20150904; JP 2015510724 A 20150409; JP 5927307 B2 20160601; KR 101667128 B1 20161017; KR 20140119156 A 20141008;
US 2015029996 A1 20150129; US 9532350 B2 20161227

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US 2013023360 W 20130128; CA 2862674 A 20130128; CN 201380007165 A 20130128; EP 13743974 A 20130128;
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